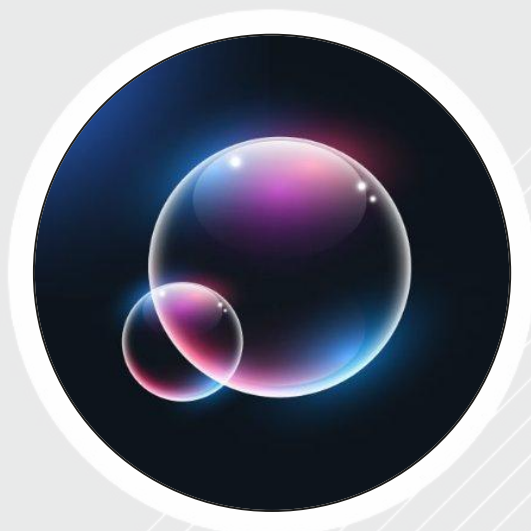




# SPYWOLF

## Security Audit Report

### (TESTNET)



Completed on  
**May 24, 2023**

@SPYWOLFNWORK



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SPYWOLF.CO





# OVERVIEW

This audit has been prepared for **BLOOMBLOCK** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# BLOOMBLOCK



## PROJECT DESCRIPTION

### **According to their whitepaper:**

BloomBlock.News is a Crypto focused news source for users to streamline their research on the Blockchain. This includes articles and videos to inform users on general crypto news. Track your favourite Crypto currencies with our real-time live price index while staying up to date on market trends and updates.

Articles and Tweets are automatically posted for a fast, accurate and unbiased update. A growing user base will be monetized with affiliate and sponsorship advertising to grow exposure. Accumulated verified news platforms are linked to BloomBlock for articles to be uploaded for fast, accurate and unbiased Blockchain news.

**Release Date:** Presale starts in May, 2023

**Category:** DeFi



# CONTRACT INFO

Token Name  
BLOOMBLOCK

Symbol  
BLOOM

Contract Address  
0x40a43e1f84a6fa593ec0898e979eb926db5b64c2

Network  
Goerli **TESTNET**

Language  
Solidity

Deployment Date  
May 20, 2023

Verified?  
Yes

Total Supply  
10,000,000,000,000

Status  
Not launched

## TAXES

Buy Tax  
**7%**

Sell Tax  
**7%**

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# CURRENT STATS

(As of May 24, 2023)



Liquidity

Not added yet



Burn

No burnt tokens

Status:  
Not Launched!

MaxTxAmount  
500,000,000,000

LP Address(es)

Liquidity not added yet



# TOKEN TRANSFERS STATS

Transfer Count	TESTNET
Uniq Senders	TESTNET
Uniq Receivers	TESTNET
Total Amount	TESTNET
Median Transfer Amount	TESTNET
Average Transfer Amount	TESTNET
First transfer date	TESTNET
Last transfer date	TESTNET
Days token transferred	TESTNET

# SMART CONTRACT STATS

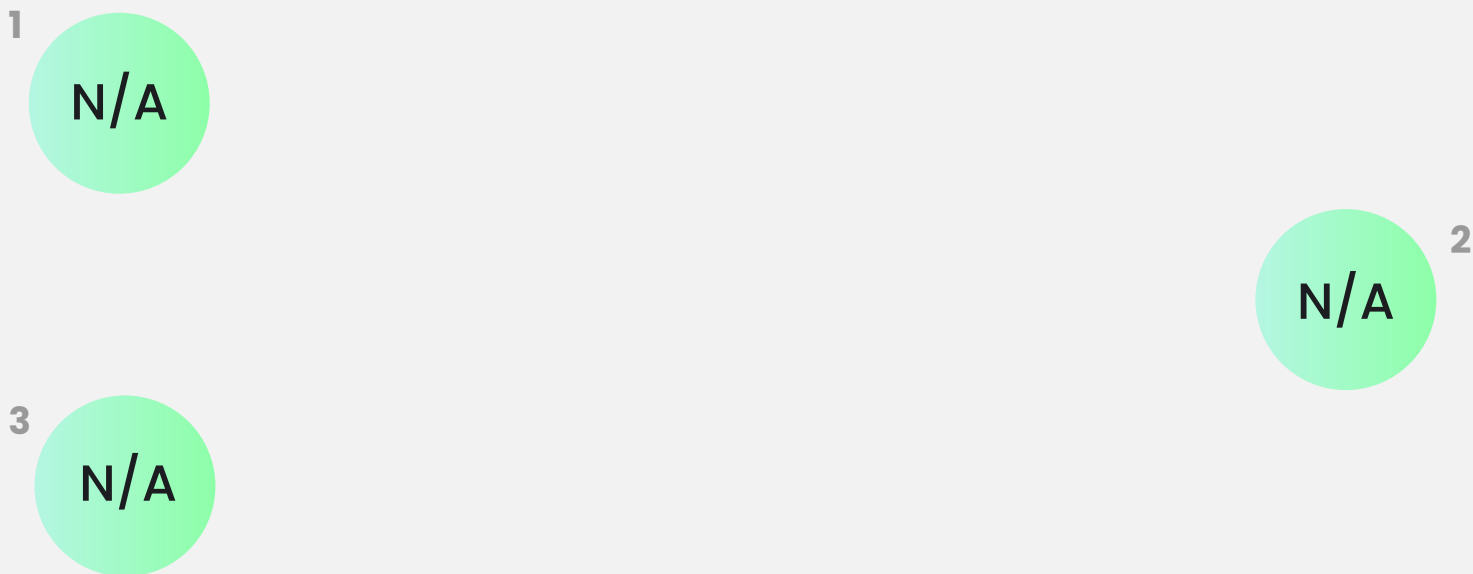
Calls Count	TESTNET
External calls	TESTNET
Internal calls	TESTNET
Transactions count	TESTNET
Uniq Callers	TESTNET
Days contract called	TESTNET
Last transaction time	TESTNET
Created	TESTNET
Create TX	TESTNET
Creator	TESTNET



# FEATURED WALLETS

Owner address	TESTNET
Marketing fee receiver	TESTNET
LP address	TESTNET

## TOP 3 UNLOCKED WALLETS







# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

## Informational

---

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## ⚠ Medium Risk

Owner can set buy fees up to 20% and sell fees up to 25%.  
Combined buy+sell = 45%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateBuyFees(uint256 _marketingFee, uint256 _liquidityFee,
uint256 _buyBackFee, uint256 _devFee) external onlyOwner {
    buyMarketingFee = _marketingFee;
    buyLiquidityFee = _liquidityFee;
    buyBuyBackFee = _buyBackFee;
    buyDevFee = _devFee;
    buyTotalFees = buyMarketingFee + buyLiquidityFee + buyBuyBackFee + buyDevFee;
    require(buyTotalFees <= 20, "Must keep fees at 20% or less");
}

function updateSellFees(uint256 _marketingFee, uint256 _liquidityFee,
uint256 _buyBackFee, uint256 _devFee) external onlyOwner {
    sellMarketingFee = _marketingFee;
    sellLiquidityFee = _liquidityFee;
    sellBuyBackFee = _buyBackFee;
    sellDevFee = _devFee;
    sellTotalFees = sellMarketingFee + sellLiquidityFee + sellBuyBackFee + sellDevFee;
    require(sellTotalFees <= 25, "Must keep fees at 25% or less");
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.



# FOUND THREATS

## ⚠ Medium Risk

Owner can burn up to 10% of the liquidity pair's tokens supply. When tokens are burnt from liquidity pair, price per token will increase. This can be abused by large token holders.

```
uint256 public manualBurnFrequency = 1 hours;
function manualBurnLiquidityPairTokens(uint256 percent) external onlyOwner {
    require(block.timestamp > lastManualLpBurnTime + manualBurnFrequency, "Must wait for cooldown to finish");
    require(percent <= 1000, "May not nuke more than 10% of tokens in LP");
    lastManualLpBurnTime = block.timestamp;

    // get balance of liquidity pair
    uint256 liquidityPairBalance = this.balanceOf(lpPair);

    // calculate amount to burn
    uint256 amountToBurn = liquidityPairBalance * percent / 10000;

    if (amountToBurn > 0){
        super._transfer(lpPair, address(0xdead), amountToBurn);
    }

    //sync price since this is not in a swap transaction!
    IDexPair pair = IDexPair(lpPair);
    pair.sync();
    emit ManualNukeLP(amountToBurn);
}
```

- Recommendation:
  - Tokens should not be burnt from the liquidity pair.



## Informational

Owner can exclude address from fees.

Owner can exclude address from max transaction limit.

```
function excludeFromMaxTransaction(address updAds, bool isEx) public onlyOwner {
    _isExcludedmaxTxnAmount[updAds] = isEx;
}

function excludeFromFees(address account, bool excluded) public onlyOwner {
    _isExcludedFromFees[account] = excluded;
    emit ExcludeFromFees(account, excluded);
}
```

Owner can set max transaction limit but cannot lower it than 0.5% of total supply.

```
function updateMaxTxnAmount(uint256 newNum) external onlyOwner {
    require(newNum >= (totalSupply() * 5 / 1000)/1e18,
        "Cannot set maxTxnAmount lower than 0.5%");
    maxTxnAmount = newNum * (10**18);
}
```

Owner can set max transaction limit but cannot lower it than 0.5% of total supply.

```
function setAutoLPBurnSettings(uint256 _frequencyInSeconds,
    uint256 _percent, bool _Enabled) external onlyOwner {
    require(_frequencyInSeconds >= 600, "cannot set buyback more often than every");
    require(_percent <= 1000 && _percent >= 0, "Must set auto LP burn percent bet");
    lpBurnFrequency = _frequencyInSeconds;
    percentForLPBurn = _percent;
    lpBurnEnabled = _Enabled;
}

function _transfer(address from, address to, uint256 amount) internal override {
    .....
    if(!swapping && automatedMarketMakerPairs[to] && lpBurnEnabled &&
        block.timestamp >= lastLpBurnTime + lpBurnFrequency && !_isExcludedFromFees[from])
        autoBurnLiquidityPairTokens();
    .....
}

function autoBurnLiquidityPairTokens() internal{
    lastLpBurnTime = block.timestamp;

    // get balance of liquidity pair
    uint256 liquidityPairBalance = this.balanceOf(lpPair);

    // calculate amount to burn
    uint256 amountToBurn = liquidityPairBalance * percentForLPBurn / 10000;
}
```





## Informational

Initial liquidity should be added and token should be launched via the launch() function.

```
function launch(uint256 _blockPenalty) external onlyOwner {
    require(!tradingActive, "Trading is already active, cannot relaunch.");

    blockPenalty = _blockPenalty;
    //update name/ticker
    _name = "BLOOMBLOCK";
    _symbol = "BLOOM";

    //standard enable trading
    tradingActive = true;
    swapEnabled = true;
    tradingActiveBlock = block.number;
    lastLpBurnTime = block.timestamp;
    // initialize router
    IDexRouter _dexRouter = IDexRouter(0xD99D1c33F9fC3444f8101754aBC46c52416550D1);
    dexRouter = _dexRouter;
    // create pair
    lpPair = IDexFactory(_dexRouter.factory()).createPair(address(this), _dexRouter.WETH());
    excludeFromMaxTransaction(address(lpPair), true);
    _setAutomatedMarketMakerPair(address(lpPair), true);

    // add the liquidity
    require(address(this).balance > 0, "Must have ETH on contract to launch");
    require(balanceOf(address(this)) > 0, "Must have Tokens on contract to launch");
    _approve(address(this), address(dexRouter), balanceOf(address(this)));
    dexRouter.addLiquidityETH{value: address(this).balance}(
        address(this),
        balanceOf(address(this)),
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        0xaf497A158fC47F2Dee27c4C560ae6a192168983F,
        block.timestamp
    );
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## BLOOMBLOCK

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can set a transaction limit, but can't lower it than 0.5% of total supply



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.